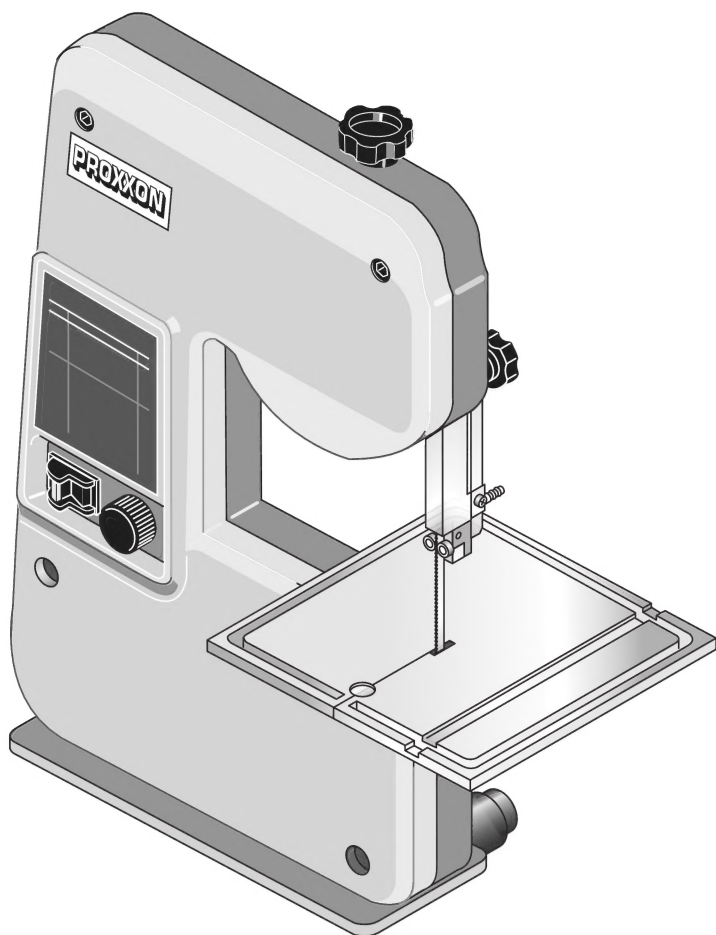


PROXXON

MBS/E



Manual

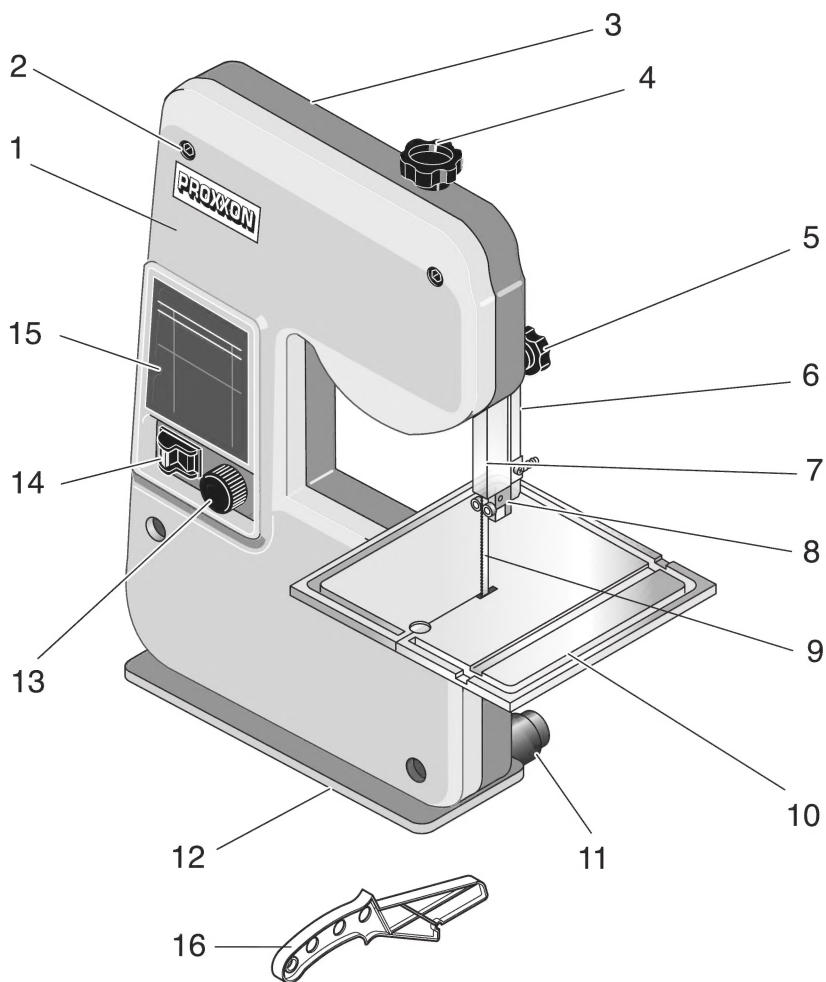


Fig. 1

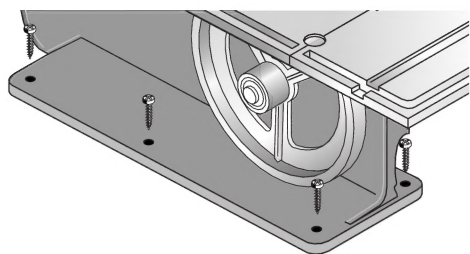


Fig. 2

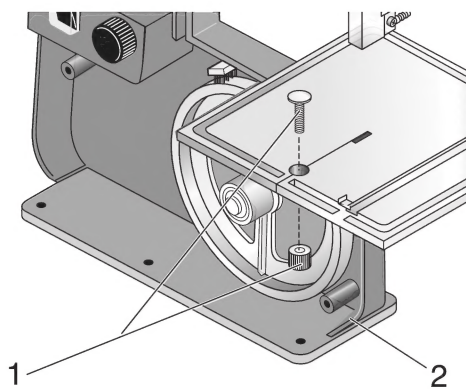


Fig. 3

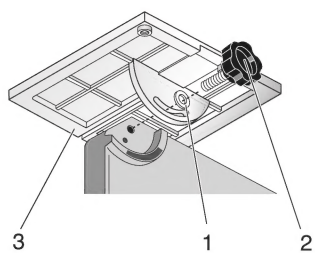


Fig. 4

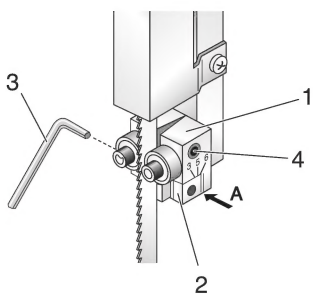


Fig. 5

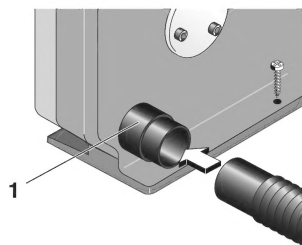


Fig. 6

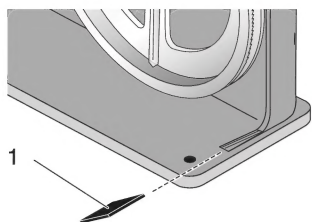


Fig. 7

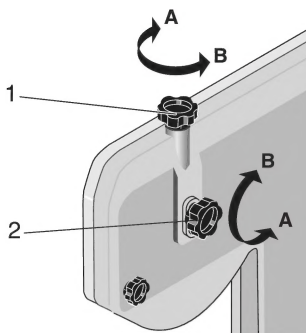


Fig. 8

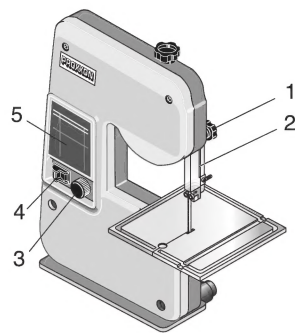


Fig. 9a

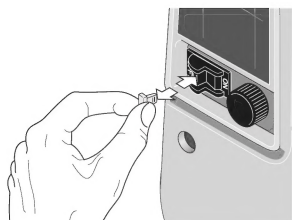


Fig. 9b

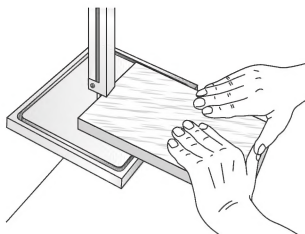


Fig. 10a

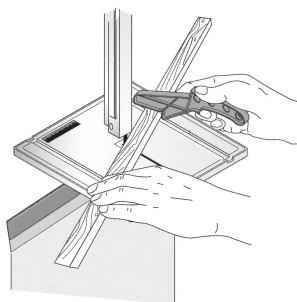


Fig. 10b

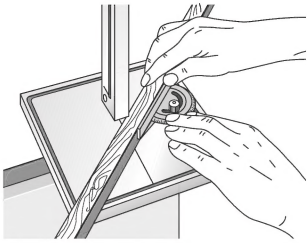


Fig. 11

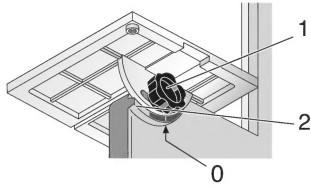


Fig. 12

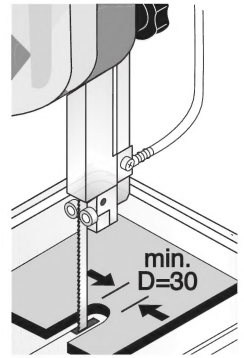


Fig. 15

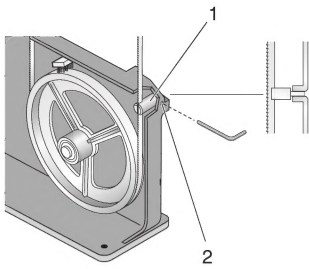


Fig. 16

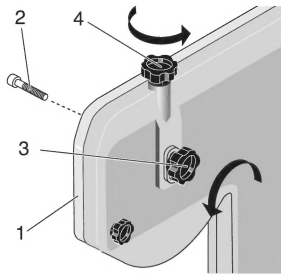


Fig. 17

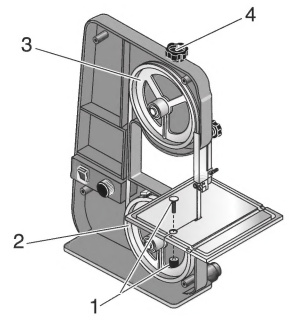


Fig. 18



Fig. 19

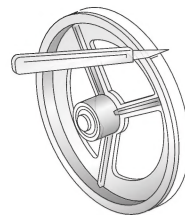
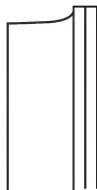


Fig. 20

Dear Customer,

By purchasing your PROXXON MICRO Band Saw MBS/E, you have chosen a good-quality, high-grade machine.

In order to operate the MICRO Band Saw safely and correctly, please read the enclosed safety information and operating instructions prior to operation.

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This instruction manual covers:

- safety regulations
- operation and maintenance
- spare parts list

Please read carefully!

Using this instruction manual will

- **make it easier for you** to get used to the machine,
- **help prevent** faults occurring due to improper use and
- **increase** the service life of your machine.

Keep this instruction manual in an easily accessible place. Only operate this machine if you are qualified to do so and follow the guidelines in this instruction manual.

Read and become familiar with this entire instruction manual, learn the tool's applications, limitations and possible hazards.

PROXXON does not accept responsibility for the safe functioning of the machine,

- if it is handled in a manner which constitutes improper use;
- if it is used for other purposes it is not intended and designed for;
- if it is used for other purposes which are not specified in the instruction manual;
- if the safety regulations are not observed.
- Warranty claims are invalid, if the machine is incorrectly operated, or the machine has not been sufficiently maintained.

In the interests of your safety, please always observe the safety regulations. Failure to follow the instructions listed below, may result in electric shock, fire, and/or serious personal injury or property damage. This can result in serious injury or possibly even death.

Only use genuine PROXXON spare parts.
We reserve the right to make further alterations for the purpose of technical progress.

We wish you every success with your machine.

Read and understand the entire owners manual before attempting assembly or operation!

1. General safety instructions

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES.
Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT.
Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.
9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.
Exception No. 1: The reference to the table and the table itself may be omitted if a statement indicating the appropriate gage and length is incorporated into the instruction.
Exception No. 2: The information regarding extension cords need not be provided for a permanently connected tool.
10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other

jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Exception: The reference to gloves may be omitted from the instructions for a grinder.

11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
13. DON'T OVERREACH. Keep proper footing and balance at all times.
14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.
16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
18. NEVER STAND ON TOOL. Serious injury could occur, if the tool is tipped or if the cutting tool is unintentionally contacted.
19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

Table 1:
Minimum gage for cord:

Total length of cord in feet	25 ft	50 ft	100 ft	150 ft
AWG:	18	16	16	14

2. Additional safety regulations

1. DO NOT OPERATE THIS MACHINE UNTIL it is assembled and installed according to the instructions.

2. DO NOT OPERATE this machine while tired or under the influence of drugs, alcohol or any medication.
3. OBTAIN ADVICE from a supervisor, instructor, or another qualified person if you are not familiar with the operation of this tool.
4. FOLLOW ALL WIRING CODES and recommended electrical connections.
5. ALWAYS USE PROPER BLADE SIZE and type.
6. ADJUST THE UPPER BLADE GUIDE so that it is as close as possible to the work piece.
7. KEEP ARMS, HANDS, AND FINGERS away from the blade.
8. NEVER START THE MACHINE before clearing the table of all objects (tools, scrap pieces, etc.).
9. NEVER START THE MACHINE with the workpiece against the blade.
10. DO NOT attempt to saw a work piece that does not have a flat surface against the table.
11. HOLD WORKPIECE FIRMLY and feed into blade at a moderate speed.
12. TURN THE MACHINE "OFF" to back out of an uncompleted or jammed cut.
13. MAKE "RELIEF" CUTS prior to cutting long curves.
14. TURN THE MACHINE "OFF" and wait for the blade to stop prior to cleaning the blade area, removing debris near the blade, removing or securing work piece, or changing the angle of the table. A coasting blade can be dangerous.
15. NEVER PERFORM LAYOUT, ASSEMBLY, or setup work on the table/work area when the machine is running.
16. TURN THE MACHINE "OFF" AND DISCONNECT THE MACHINE from the power source before installing or removing accessories, before adjusting or changing set-ups, or when making repairs.
17. TURN THE MACHINE "OFF", disconnect the machine from the power source, and clean the table/work area before leaving the machine.

3. Additional safety instructions for band saws:

For Your Own Safety Read Instruction Manual Before Operating MICRO Band Saw.

- a) Wear eye protection. Use safety glasses. Please note: Everyday eyeglasses are NOT safety glasses. Eye protection equipment should comply with ANSI Z87.1 standards.
- b) During extended periods of operation wear ear protectors (plugs or muffs).
- c) Do not remove jammed cut off pieces until blade has stopped.
- d) Maintain proper adjustment of blade tension, blade guides, and thrust bearings. Poorly maintained tools and machines can further damage the tool or machine and/or cause injury.
- e) Adjust upper blade guide so that it is about 1/8" above the workpiece.
- f) Hold workpiece firmly against table.

Warning:

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Use a vacuum cleaner for wood dust collection as described in our manual whenever possible.

4. Grounding Instructions

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or service personnel, if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug. Repair or replace damaged or worn cord immediately.

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in Sketch A in Figure 21.

The tool has a grounding plug that looks like the plug illustrated in Sketch A in Figure 21. A temporary adapter, which looks like the adapter illustrated in Sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in Sketch B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

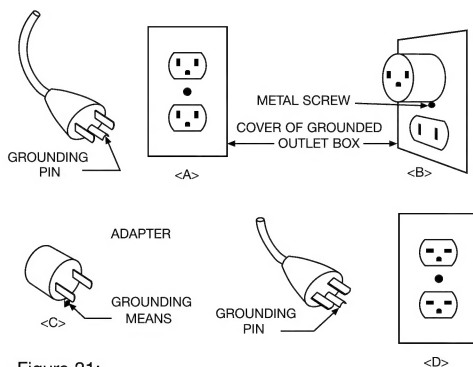


Figure 21:

5. Description of machine

5.1. Legend (Fig. 1)

- | | |
|---------------------|------------------|
| 1 Cover for housing | 9 Saw blade |
| 2 Fastening screw | 10 Working table |
| 3 Housing | 11 Socket |
| 4 Adjustment screw | 12 Machine base |
| 5 Clamping screw | 13 Control knob |
| 6 Guide rod | 14 On-Off switch |
| 7 Saw blade cover | 15 Diagram |
| 8 Saw blade guide | 16 Push-Stick |

5.2. Introduction

The MICRO Band Saw MBS/E cuts steel, non-ferrous materials, wood and plastic materials and can also be used for glass and ceramics when fitted with a diamond saw blade. The MBS/E is driven by a powerful 115 V motor with electronic speed regulation for the adjustment of the correct band speed for excellent working results. The low noise motor (high quality, for quiet, prolonged use) operates via toothed belt.

A solid, ribbed die-cast aluminum housing (not a tubular or sheet metal construction) ensures the necessary stability. The machine has double ball bearing aluminum pulleys, a sturdy machined table with a slot for the miter gauge as well as the coolant trough.

The possibility of adjusting the work table to any angle between 0° and 45° ensures clean and accurate miter cuts.

Electronically controlled speeds for exceptionally accurate cutting (no subsequent finishing necessary) are available from 395 to 820 ft/min. A practical table at the outside of the machine housing indicates the recommended speed for various types of material. The machine comes equipped with one 42" x 13/64" x 1/64" (1065 x 0,5 x 0,4 mm) band saw blade (14 TPI). The blade section size 13/64" x 1/64" (5 x 0,4 mm) is ideal for fine work, allowing to cut even smallest radii (also available as accessory, NO 28 176) .

The scope of delivery includes a miter guide with gradation and two Allen keys as well as a push stick.

The machine is also equipped with a vacuum-cleaner adapter to help you work in a dust-free environment. We recommend only to use original PROXXON spare parts and saw blades.

5.3. Specifications

Nominal voltage:	110-120V AC, 60 Hz
Power:	1/8 hp (85 Watts)
Band speed:	395 to 820 ft/min, infinitely variable
Noise level:	<70 dB (A)
Weight:	15.5 lb (7 kg)

Dimensions:	
Work table:	7 7/8" x 7 21/32" (adjustable from 0 to 45°)
Throat depth	5 29/32" (max. 150 mm)
Max. Work piece height:	2 5/32" (max. 55 mm)
Length of saw blade:	42"

5.4. Scope of supply

- 1pc. Band Saw
- 1pc. Work table
(with knob and sleeve)
- 1pc. Rubber socket
- 1pc. Miter gauge
- 1pc. Push-stick
- 4pc. Allen keys
- 1pc. Manual
- Fixing screws
- Packaging

6. Machine set-up

Warning!

To avoid injury from unexpected starting or electrical shock, do not plug the power cord into a power source receptacle during unpacking and assembly. Never connect the plug to the power source receptacle until the assembly and adjustment steps are completed, and you have read and understood the safety and operating instructions. Make certain the switch is in the off position before connecting the machine to the power source receptacle.

1. Unpack the MICRO Band Saw and check for completeness.

Note:

For safety reasons the machine should be fastened with the 3 wood screws (included) to a strong work bench (see fig. 2). Make sure the MICRO Band Saw is firmly secured to the bench before use and keep the floor around the machine clean and free of scrap material, oil and grease.

6.1. Attaching the work table to the saw

1. Unscrew the brass screw 1 from the sawing gap (fig. 3) in the working table.
2. Slide the working table 3 (fig. 4) into the respective recess and fasten it with the knob 2 and the sleeve 1. Set the mark to "0".

3. Screw the brass screw 1 (fig. 3) back in.

6.2. Checking and vertical adjusting of the upper blade guide assembly

Warning:

Disconnect the machine from the power source! Properly adjust the blade guides before use!

6.2.1. Vertical adjusting of the upper blade guide

For excellent working results please set the upper blade guide assembly as close as possible to the top surface of the work piece.

1. Loosen the knob 1 (fig. 9a) and move the guide assembly 2 into the desired position.
2. Tighten the knob 1.

6.2.2. Checking and adjusting the blade width

Warning:

Disconnect the machine from the power source! Properly adjust the blade guides before use!

Adjust the upper saw blade guide 1 (fig.5) to the width of the respective saw blade. The edge A must thereby be in line with line "5" on the scale (e.g. saw blade 1065 _ "5" _ 0.4). The band must now touch the rear roller.

1. Slightly loosen the socket head cap screws with an Allen key 3 (fig. 5).
2. Slide the adjusting piece (2) until it matches line "5" on the scale.
3. Tighten the socket head cap screw (3, included), but not too tight!
4. The saw blade thickness can be corrected by means of the set-screw 4.

6.2.3. Using a vacuum cleaner

Note:

When cutting wood or plastic materials the machine should be connected to a dust extractor (vacuum cleaner) to avoid accumulation of saw chips inside the machine.

1. Connect the vacuum cleaner to the rubber socket 1 (fig. 6).

Please first make sure that the plate 1 (see fig. 7) is inserted. This is necessary when often sawing wood or similar materials.

When often cutting aluminum, metal, glass, tiles etc. remove this plate to avoid accumulation of chips inside the machine.

2. Unscrew four socket head cap screws 2 from the housing 1 (fig. 1) and take the cover off.
3. Slide the plate 1 (fig. 7) in and connect the vacuum cleaner to the socket 1 (fig. 6).
4. Install the housing cover.

6.2.4. Adjusting tension of the saw blade

Warning!

Always disconnect the machine from the power source while adjusting the blade tension!
Properly adjust the blade tension before use!
The saw blade is tensioned correctly when it runs quietly and without vibrations. The saw blade also must not run sideways off the wheels.

The band saw is equipped by a knob to adjust the blade tension correctly. Proceed as follows:

1. Loosen the knob 2 (fig. 8) in direction A
2. Turn the knob (1) in direction (A) to tension or in direction (B) to loosen the saw blade.
3. Tighten knob (2).

Caution!

An extremely tensioned saw blade may break and damage the machine! Over-straining also causes poor performance!

7. Operating the MICRO Band Saw

Warning!

- To avoid injury from accidental start, make sure the switch is in the OFF position and the plug is not connected to the power source receptacle before changing any parts.
- Please read the following safety regulations thoroughly and follow them before starting work with the machine.
- Safe and precision working practice can only be ensured with the unit properly secured!
- Do not leave the unit switched on, it unsupervised.
- Use only saw blades in good condition!
- Replace blunt and deformed saw blades immediately!
- Always disconnect the machine from the mains supply for cleaning and service work!
- Do not run the machine unattended!

Note:

- Fasten the work piece securely. When sawing round work pieces use an appropriate device to secure the work piece against turning.
- Use the push stick when working close to the saw blade.

7.1. Starting operation

Attention!

Before starting the band saw should be connected to a dust extracting device.
Remove loose items and unnecessary work pieces from the area before starting the machine

1. Connect the machine to the mains supply.
2. Switch the machine on with the power switch 4 (fig. 9 a)

7.1.1. Lockable Switch

Your MICRO Band Saw is equipped with a lockable switch (fig. 9 b): It allows you to make the saw child-proof and makes any other unauthorized use impractical as well. With the pulled-out pin like shown in the sketch you cannot switch on the machine. So an accidental start-up will be impossible and unauthorized use is prevented.

An accidental start-up of the machine by a child or visitor could cause injury!

To save the machine, set the switch in position "Off", pull out the pin and disconnect the machine from the power source.

To start the machine again and to operate the switch in the usual way, just push the pin back into its opening. Then you can reconnect the machine to the power source and work with it.

7.2. Adjusting blade speed

Before starting work, adjust the appropriate speed for the saw blade and the material.

Vernier adjustment of the band speed is possible with the speed regulator 3 (fig. 9 a). Refer to the diagram (5) for optimal band speed. The values are, however, only reference values!

Generally applicable:

High band speed for thin material and low band speed for thick material.

7.3. Sawing

Mark the cut on the work piece. Never brake the band speed by pushing too hard. The saw blade must "cut freely", so the best results will be achieved. In case of vibrations adapt the band speed respectively.

7.3.1. Free-hand sawing

Press the work piece onto the work table, guide it carefully and only with little force (fig.10 a). More pressure against the work table, less pressure against the saw blade.

Always avoid awkward operations and hand positions where a sudden slip could cause a hand to move into the blade. In these cases use the push-stick (provided with the saw, see fig. 10 b).

7.3.2. Sawing with miter guide

Attention!

Adjustments must only be carried out with the machine switched off.

1. Adjust the desired angle on the miter guide.
2. Press the work piece lightly against the saw blade (fig. 11).

7.3.2.1. Miter cuts

For miter cuts the working table can be tilted to any angle between 0° and 45°.

1. Loosen the clamping screw 1 (fig. 12) and tilt the table to the desired angle.
2. Read the degrees on the scale (2).
3. Tighten the clamping screw (1).

7.3.3. Operation with the diamond saw band

Things to know about working with diamond saw bands

Important:

Only proper cooling of the diamond band will ensure optimally cut glass or ceramics and enable a long service life of the band.

Appropriately, this can be done with a brush: This enables you to dose the coolant economically and precisely, thus preventing an inappropriate amount from getting into the machine. When working, simply set a glass of water next to the machine and cool the band with economic brush strokes at regular intervals.

Please observe:

It is not possible to cut radii less than 15 mm! (see Fig.15) with the diamond saw band!

Important:

Do not use diamond saw bands for metal, plastic or wood.

Caution:

The adjustment of the saw blade width (see also the chapter "Checking and adjusting the blade width") must be done differently for the diamond band: In any case make sure that the actual diamond coating is not touched by one of the bearings. Therefore, adjust the thickness rather generously.

8. Care and Maintenance:

8.1. Checking and adjusting lower blade guide

Warning: Disconnect the machine from the power source!
The machine is fitted with a saw blade
42" x 13/64" x 1/64" from the factory.

5. Unscrew four socket head cap screws from the housing 2 (fig. 1) and take the cover 1 off.
6. Check the fit of the saw blade in the lower band guide 1 (fig. 16). The guide slot must be exactly vertical.
7. Adjust the band guide (only if necessary!) after loosening the clamping screw 2.
8. Tighten screw 2 and reinstall housing cover..

8.2. Changing the saw blade

Caution!

- Use only spare parts recommended for this MICRO Band Saw. Follow the instructions that accompany accessories. Use of improper spare parts may cause hazards.
- Always pull the mains plug out when changing parts.
- Blade teeth are sharp! Use care when handling the

saw blade. Failure to comply may cause serious injury.

1. Unscrew four socket head cap screws 2 (fig. 17) and take the housing cover 1 off.
2. Unscrew the brass screw 1 (fig. 18).
3. Loosen the clamping screw 3 (fig. 17) for half a turn.
4. Turn the knob 4 until the saw blade can be removed from the wheels 2 and 3 (fig. 18).
5. Insert the new saw blade into the sawing gap with the non-toothed side forward and the teeth pointing downwards (towards the sawing table).

Note:

There is a possibility that the saw blade has "turned over".

In such a case make sure to turn the saw blade back. The teeth must point to the front and downwards. When changing to a wider or narrower saw blade the saw blade guide must be adjusted accordingly (see "Checking and adjusting the blade width").

6. After changing the blade you always should check tension of the saw band. See 6.2.4.
7. Turn the knob 4 (fig. 17) until the saw blade is lightly tensioned.
8. Tighten the clamping screw 3 (fig. 17) and reinstall the brass screw 1 (fig. 18).

Caution!

Extreme tensioning can cause damage to the machine and breaking of the saw blade.

9. Install the housing cover 1 (fig. 17) and fasten the socket head cap screws 2.

Note:

The saw blade must not run sideways off the wheels. You find further instructions in the chapter "6.2.4. Adjusting tension of the saw blade" on page 9.

8.3. Changing the rubber rings on the wheels

Each wheel is covered with a rubber ring to protect the saw blade. These rubber rings are wear items and must be replaced whenever necessary. The rubber rings must therefore be examined regularly. In case of a 'hollow shape' caused by abrasion (fig. 19), the respective ring must be replaced immediately.

1. Cut the worn rubber ring (fig. 20) by using a sharp, heated knife.
2. Warm up the new rubber ring for 10 minutes in hot water (not boiling).
3. Press the plastic ring firmly onto the wheel, until it sits perfectly in the groove.

Install the wheel and the housing cover and fasten it with the 4 socket head cap screws.

8.4. Care and cleaning of the machine

Warning!

Always disconnect the mains plug prior to cleaning and maintenance operations.

If any part is missing or damaged, do not plug the MICRO Band Saw in until the missing or damaged part is replaced, and assembly is complete. To avoid electrical shock, use only identical replacement parts when servicing double insulated tools.

To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner, or similar highly volatile solvents to clean the MICRO Band Saw.

Do not allow brake fluids, gasoline, or penetrating oils to come in contact with the plastic parts. They contain chemicals that can damage or destroy plastics.

Turn switch OFF and always remove plug from power source before making any adjustments or repairs.

All electrical or mechanical repairs should be done only by qualified service technicians.

When servicing use only PROXXON replacement parts. Use of any other parts may create a hazard or cause product damage.

Any attempt to repair or replace electrical parts on this MICRO Band Saw may create a hazard unless repair is done by a qualified service technician. Repair service is available at your PROXXON service center (You find the address on the back of this manual)

- After working with the machine remove all chips with a suitable hand broom, a vacuum cleaner, a brush or compressed air— do not use your hands. Turn off the machine before cleaning.
- Clean the machine regularly with a cloth from all dirt.

9. Optional Accessories

Note:

Use accessories and spare parts that have been recommended by PROXXON. Improper accessories may be hazardous!

NO 28 187 Blade guide

Triple ball bearing system with feed pipe for coolant when used with the diamond blade. Can also be used in conjunction with normal blades.

10. Accessory Blades

- NO 28 174 Swedish steel 42" x $13/64$ " x $1/64$ " (1,065 x 5 x 0.4 mm). Fine toothed (24 TPI). For steel and brass.
- NO 28 176 Swedish steel, same size, but coarse toothed (14 TPI). For wood and plastics.
- NO 28 180 Special tempered Swedish steel with induction-hardened teeth. Extra narrow for tight curves 42" x $9/64$ " x $1/64$ " (1,065 x 3.5 x 0.5 mm). Coarse toothed (14 TPI). For aluminum and plastic.
- NO 28 186 Diamond blade
For stones, ceramics, glass and fiberglass.
42" x $7/64$ " x $1/64$ " (1,065 x 3 x 0.3 mm).

Spare parts list

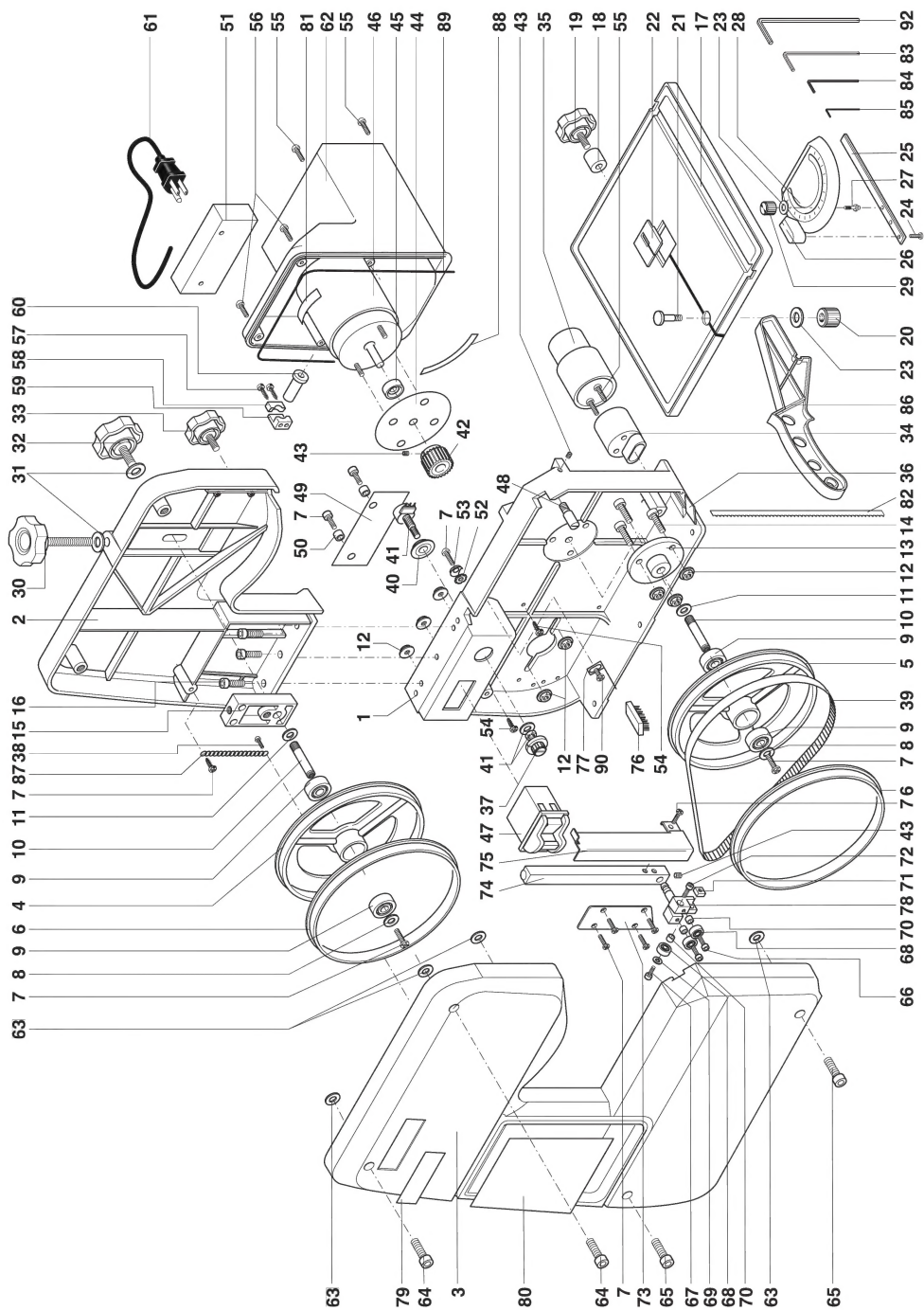
Please order spare parts in writing from Proxxon Service center (address on the back of this manual)

PROXXON MICRO Band Saw MBS/E

Part No.:	Designation	Part No.:	Designation
27172-01	Lower frame	27172-48	Blade guide post
27172-02	Upper frame	27172-49	Insulation Plate
27172-03	Front cover	27172-50	Insulation spacer
27172-04	Upper wheel	37172-51	Circuit board
27172-05	Lower wheel	27172-52	Tooth washer
27172-06	Tire	27172-53	Copper washer
27172-07	Screw	27172-54	Countersink screw
27172-08	Washer	27172-55	Cross head screw
27172-09	Bearing	27172-56	Cross head screw
27172-10	Shaft of wheel	27172-57	Countersink screw
27172-11	Flat washer	27172-58	Clip plate
27172-12	Nut	27172-59	Clip seat
27172-13	Shaft seat of lower wheel	37172-60	Tension relief
27172-14	Screw	37172-61	Power cord w/i plug
27172-15	Sliding of upper wheel	27172-62	Guard of motor
27172-16	Screw	27172-63	Stop plate
27172-17	Table	27172-64	Screw
27172-18	Table sleeve	27172-65	Screw
27172-19	Knob	27172-66	Screw
27172-20	Knurled nut	27172-67	Screw
27172-21	Table bolt	27172-68	Bearing
27172-22	Table insert	27172-69	Flat washer
27172-23	Flat washer	27172-70	Spacer
27172-24	Countersink screw	27172-71	Square nut
27172-25	Guide	27172-72	Sleeve screw
27172-26	Pointer	27172-73	Plate
27172-27	Bolt	27172-74	Guide post
27172-28	Miter gauge	27172-75	Blade guard
27172-29	Knurled nut	27172-76	Brush
27172-30	Knob	27172-77	Brush block
27172-31	Flat washer	27172-78	Blade bracket
27172-32	Knob	27172-79	Nameplate
27172-33	Knob	37172-80	Label
27172-34	Dust port	37172-81	Label of motor
27172-35	Dust chute	27172-82	Blade
27172-36	Plate	27172-83	Allen key
27172-37	Control Knob	27172-84	Allen key
27172-38	Screw	27172-85	Allen key
27172-39	Tooth belt	27172-86	Push stick
27172-40	Waterproof plate	27172-87	Chain
37172-41	Potentiometer	27172-88	Label for pointer
27172-42	Pulley of motor	27172-89	Dust-proof piece
27172-43	Setscrew	27172-90	Screw
27172-44	Plate	27172-91	Washer
27172-45	Cover	27172-92	Allen key
37172-46	Motor	37172-99	Manual
37172-47	Switch		

LIMITED WARRANTY OF PROXXON POWER TOOLS FOR HOME USE

Prox-Tech, Inc., ("Seller") warrants to the original purchaser only, that all PROXXON consumer power tools will be free from defects in material or workmanship for a period of two years from the date of purchase. Seller's sole obligation and your exclusive remedy under this limited warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Station. In the event of a failure of a product to conform to this written warranty, please refer to the Service and Repair section on the back of this manual and take action accordingly. This Limited Warranty does not apply to accessory items such as circular saw blades, drill bits, router bits, jigsaw blades, sanding belts, grinding wheels and other related items. Damage to the product resulting from tampering, accident, abuse, negligence, unauthorized repairs or alterations, unapproved attachments or other causes unrelated to problems with material or workmanship are not covered by this warranty. Any implied warranties shall be limited in duration to two years from date of purchase. Some states in the U.S. and some Canadian provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In no event shall seller be liable for any incidental or consequential damages (including but not limited to liability for loss of profits) arising from the sale or use of this product. Some states in the U.S. and some Canadian provinces do not allow the exclusion or limitation of incidental or consequential damages; so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights, which vary from state to state in the U.S., province to province in Canada and from country to country. This limited warranty applies only to PROXXON power tools sold within the United States of America, Canada, the commonwealth of Puerto Rico and Mexico. For warranty coverage within other countries contact your local PROXXON Importer.





SERVICE AND REPAIR

Your device does not work properly? Please read the operating instructions again carefully. If the unit is in fact defective, please send it to:

Prox-Tech, Inc.
Attn.: PROXXON Service Center
2555 Tate Blvd. S.E.
PO Box 1909
Hickory, NC 28603-1909

Please make sure, that your tool is **carefully packaged** and include a copy of your **dated proof of purchase**. You will help us to react even quicker, if you describe the problem in short and please **don't forget to include your name, address and daytime telephone number**. We will respond in a prompt and reliable manner.

Spare Parts

You can also order any necessary **spare parts** from our Service Center at the above address. Please check the **article-number** of the tool concerned on the nameplate of the tool and define the part needed by using the **explosion drawing** in the manual that came with the tool. **Every part has a specific number** (5 digit-XX). Please provide us with this number when ordering.

For any further information call us toll free at **1-877-PROXXON** (1-877-776 9966) or visit us on the web at www.proxxon.com/us.

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